

# इंटरनेट

# मानक

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“Step Out From the Old to the New”

IS 4534 (1980): Adapter for Terminal Devices, Artificial Limbs [MHD 10: Medical Laboratory Instruments]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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## Indian Standard



# SPECIFICATION FOR ADAPTER FOR TERMINAL DEVICES, ARTIFICIAL LIMBS.

( First Revision )

1. **Scope** — Dimensional and other requirements of adapter for terminal devices.
2. **Material** — The spindle and disc of the adapter shall be manufactured from carbon steel conforming to IS : 7283-1974 'Specification for hot-rolled bars for production of bright bars' or designation 11C10S25 of IS : 4431-1978 'Specification for carbon and carbon-manganese free-cutting steels (first revision)' and Type 0 of IS : 513-1973 'Specification for cold rolled carbon steel sheets (second revision)', respectively.
3. **Types** — The adapter shall be of two types as shown in Fig. 1 and 2.
4. **Shape and Dimensions** — The general shape and dimensions of the adapter shall be as given in Fig. 1 or Fig. 2.

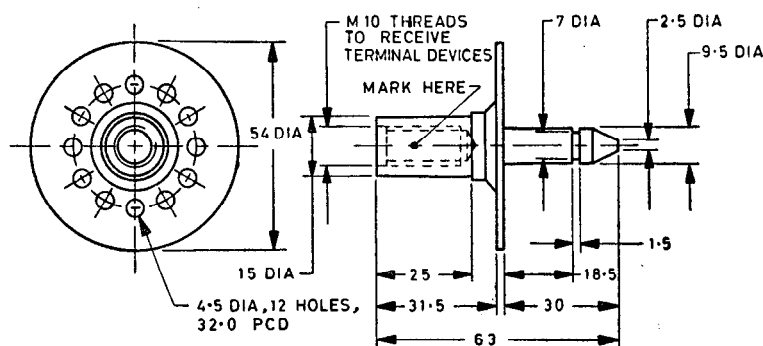
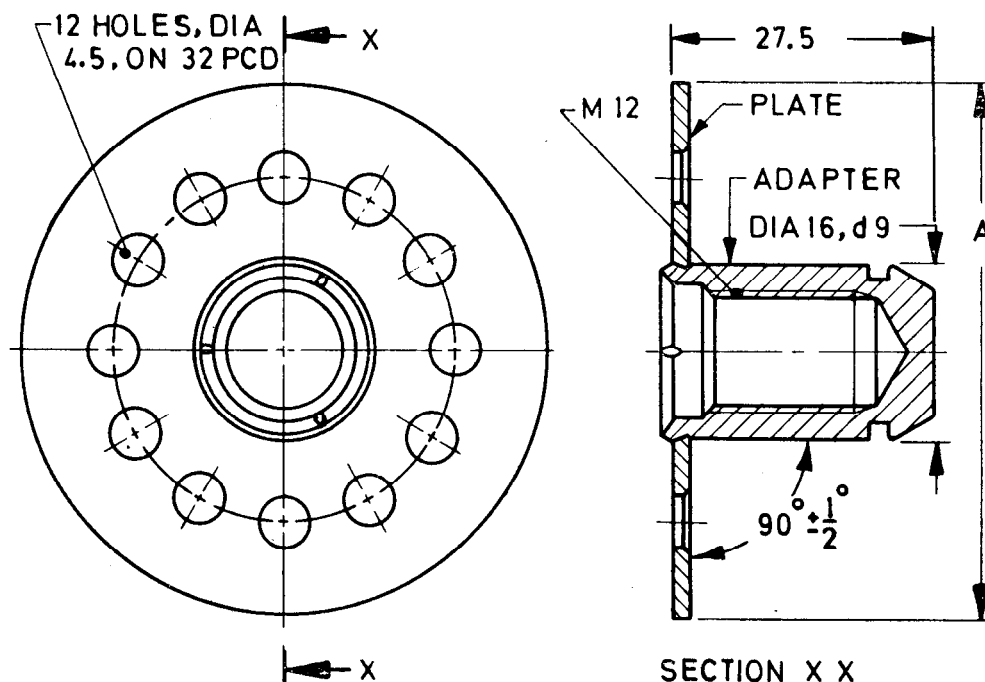


FIG. 1 ADAPTER FOR TERMINAL DEVICE, 10 mm



A = 46, 50, 60

All dimensions in millimetres.

FIG. 2 ADAPTER FOR TERMINAL DEVICE, 12 mm

Adopted 12 March 1980

© August 1980, ISI

Price Rs. 100

Gr 1

**5. Manufacture, Workmanship and Finish**

**5.1** The spindle shall be manufactured by turning and the disc shall be pressed out of carbon steel plate ( see 2 ). The holes in the disc shall be clean and free from burrs and shall be spaced evenly as shown in Fig. 1 and 2. The internal threads shall be cut accurately and shall be smooth, clean and free from burrs. The adapter shall be free from pits, cracks, scales, seams and other surface flaws. The adapter shall be plated chromium over nickel and the plating shall conform to Grade 3 of IS : 1068-1968 ' Specification for electroplated coatings of nickel and chromium on iron and steel ( *first revision* ) '.

**6. Test**

**6.1** The spindle of the adapter shall be firmly gripped in a suitable bench vice. The disc of the adapter shall be suitably loaded with a dead load of 150 kgf for a period of 3 minutes. On removing the load the joint between the disc and the spindle shall not have loosened or developed cracks.

**7. Marking** — The adapters shall be clearly and legibly marked with the manufacturer's name, initials or recognized trade-mark.

**7.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

**8. Packing** — The adapters shall be packed in the manner as agreed to between the purchaser and the supplier.

**EXPLANATORY NOTE**

Terminal devices for artificial limbs are working accessories to be fitted into the dress or working arm of an amputee of the upper extremity. The adapter is used to fit these terminal devices to the artificial arm. Interchangeability is an essential aspect for the manufacture of adapters because the same adapter has to receive a variety of terminal devices and has also to be capable of being fitted into any working arm. This revision incorporates an alternate design of the adapter.